



IN THE UNITED STATES PATENT AND  
TRADEMARK OFFICE

In re PATENT APPLICATION of

Yuichi ITOH et al.

Atty. Docket No.: 1254-0170P

Serial No. 09/779,558

Group: 1713

Filed: February 9, 2001

Examiner: EGWIM, KELECHI C.

For: LOW FOGGING THERMOPLASTIC ELASTOMER COMPOSITION AND  
MANUFACTURING METHOD AND USE OF SAME COMPOSITION

DECLARATION PURSUANT TO 37 C.F.R.1.132

1. I, Yuichi Itoh, do hereby declare as follows:

I graduated from Tokyo Institute of Technology, Graduate School, Organic Material Science in March, 1988. Since April, 1988, I have been employed by Mitsui Chemicals, Inc.

I have a full knowledge of the present invention and cited references.

2. In order to demonstrate the patentability of the present invention, the following experiment was carried out.

From a mineral oil Tufflo 6056 having an evaporation loss of 0.72 % by weight at a condition of 200 °C, atmospheric pressure and 1 hour, low molecular weight components by 20 % volume was cut by distillation under reduced pressure to obtain a process oil having an evaporation loss of 0.21 % by weight at a condition of 200 °C, atmospheric pressure and 1 hour.

An olefinic thermoplastic elastomer composition was produced (molded) in the same way as Example 1 of the Specification, except for using as a mineral oil Tufflo 6056 before and after cutting low molecular weight components.

Regarding the olefinic thermoplastic elastomers thus obtained, the following evaluation test was conducted, and the results are shown in Table I.

[Antifogging test]

Using the obtained pellets, the fogging after 100 °C and 3 hours was evaluated in terms of haze values according to the prescription of A method of DIN.

[Gloss (visual observation)]

The gloss was judged by visual observation.

Criterion:

○: glossy

△: a little glossy

×: not glossy at all

[Tensile properties]

The tensile properties were measured according to the prescription of JIS K6301.

$M_{100}$  : stress at 100% elongation

$T_B$  : tensile strength at break

$E_B$  : tensile elongation at break

Table 1

	Tufflo 6056	
	Before cutting	After cutting
[Antifogging test]		
Haze (%)	3.3	1.3
Gloss	○	○
[Tensile properties]		
$M_{100}$ (Kg/cm <sup>2</sup> )	4.0	3.9
$T_B$ (Kg/cm <sup>2</sup> )	9.3	9.4
$E_B$ (%)	500	520

3. I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: This 17<sup>th</sup> day of August, 2005

A handwritten signature in cursive script, reading "Yuichi Itoh", written in dark ink. The signature is positioned above a horizontal line.

Yuichi Itoh